M2M 3G/4G Industrial Router

RFFA 20100

- Advanced Failover: Maximizes uptime by seamlessly switching between the multiple Internet interfaces (cellular, WAN, WIFI, dual-SIM).

- Multiple Tunneling Schemes: Secure your data using a variety of VPN tunneling schemes, including IPSec, L2TP, PPTP, Open VPN and GRE.

- Flexible WIFI: 802.11b/g/n, configurable WIFI as WAN or access point, WIFI Security (WEP/WPA/WPA2MixedMode) and multiple SSID.

- Ethernet, serial and I/O for connecting diverse field assets.

- Remote Management provides mass configuration, device management, OTA update, and troubleshooting tools.

M2M 3G/ 4G Router is an intelligent cellular router designed for industrial applications requiring faultless connectivity. It provides a secure, reliable, real-time, remote connectivity for SCADA, distribution management systems, metering etc.

Software-defined, multi-carrier networking, dual SIM models, 802.11n and global 2.5G/ 3G/ HSPA+/ LTE options make it easy to get connected. With DIN-rail mounting, wide operating temperature range, and IP30 metal housing, it is a convenient yet reliable solution for any industrial wireless applications.

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Model

- Cellular (LTE/WCDMA), WIFI, SIM*1(Expandable to 2), I/O(2*DI, 1*DO, 1*Relay), GPS(Option)

CELLULAR WAN

- Supported Frequency Bands
  LTE: B1, B2, B3, B4, B5, B7, B8, B20, B28
  WCDMA: 2100(B1), 1900(B2), 850(B5)
  EV-DO/CDMA: 800(BC0)
  GSM/GPRS/EDGE: 850/900/1800/1900
- Automatic SIM based network operator switching

HOST INTERFACES

- 10/100Base-T RJ45 Ethernet port
- RS-232 or RS-485 Serial Console Port
- 3 SMA antenna connectors (WI-FI and Double-cellular)
- Active GPS antenna support (option)
- (6) pin 3.5mm terminal block

INPUT/OUTPUT

- (6) pin 3.5mm terminal block.
- (2)DI, (1)DO, (1)Relay.
- Input ON Voltage: 5 to 30 VDC.
- Input OFF Voltage: 0 to 3 VDC.
- Output<50mA@30VDC.
- Relay: 1A 250 VAC/30VDC

LAN

- DNS, DNS Proxy
- DHCP Server
- IP Passthrough (option)
- VLAN
- Host Interface Watchdog
- PPPoE

SERIAL

- TCP/UDPPAD Mode
- Modbus (ASCII, DTU, Variable)
- PPP
- Reverse Telnet

EVENTSENGINE (Option)

- Custom event triggers and reports.
- Configurable interface, no programming.
- Event Types: Digital Input, Network Parameters, Data Usage, Timer, Power, Device Temperature.
- Report Types: TCP, UDP, SMS, SNMP Trap, HTTP, JSON.
- Event Actions: Drive Relay Output.

WIFI

- IEEE802.11b/g/n, AP and client mode.
- Adjustable output power (Max:26dBm)
- Access point for up to 30 clients
- Simultaneous access point/client mode
- WEP, WPA-PSK, WPA2-PSK etc. Security

NETWORK AND ROUTING

- Network Address Translation (NAT)
- Port Forwarding
- Host Port Routing
- VRRP
- Reliable Static Route
- Dynamic DNS

VPN

- IPSec, GRE, and OPEN VPN Client
- Up to10 concurrent tunnels
- Split Tunnel
- Dead Peer Detection (DPD)
- Multiple Subnets
- VPN Failover

SECURITY

- Remote Authentication
- DMZ
- Inbound and Outbound Port filtering
- Inbound and Outbound Trusted IP
- MAC Address Filtering.

GPS (Option)

- Antenna Interface: SMA Female, 50ohms impedance
- Tracking Sensitivity: better than-144dBm
- Horizontal position accuracy: 2.5m
- Time-To-First-Fix: 29s
- Protocol: NMEA-0183V2.3

OPERATION ENVIRONMENT

- Operating Temperature: -35°C to +75°C/-31°F to +167°F
- Storage Temperature: -40°C to 85°C/-40°F to 185°F
- Humidity: 90% RH@60°C

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MANAGEMENT SERVICE

- Secure cloud-based device management application
- Remote provisioning
- Gateway configuration and template management
- Configurable monitoring and alerting
- Software and radio module firmware updates
- Auto configuration

DIMENSIONS

- Housing & Weight: Metal,520g
- Dimension: (L x W x H): 133 x 115.7 x 45mm
- Installation: 34.6mm Din-Rail or wall mounting or desktop

MENAGEMENT ITERFACES

- Web-Based User Interface
- Device Configuration Templates
- Software and radio module firmware updates
- AT Command Line Interface (Telnet/SSH/Serial)
- SMS Commands (Option)
- SNMP

TAINET TAINET COMMUNICATION SYSTEM CORP.